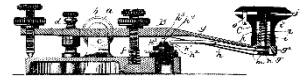




Bexar Wire

San Antonio Radio Club
W5SC



2018, No. 10

October 2018

Getting Physical with Ethernet



Bill Craft, KD2HIQ, making his presentation at the September 12, 2018, General Membership Meeting on Getting Physical with Ethernet

Our last meeting at Grady's Barbeque, 327 E. Nakoma Dr., San Antonio, TX 78216 at 7:00 p. m. on Thursday, September 12, 2018, featured a presentation by Bill Craft, KD2HIQ, on Getting Physical with Ethernet. Bill KD2HIQ is the webmaster for SARC so it was generally suspected that he had more than a passing familiarity with computers and the internet. He proved it with this presentation on Ethernet. His presentation consisted was a PowerPoint presentation based one supplemented with numerous physical items that he passed around

Teaching Morse Code

Our next club meeting will be at 7:00 p. m. (1900) on Thursday, October 11, 2018, at Grady's Barbeque, 327 E. Nakoma Dr., San Antonio, TX 78216. The program will be presented by Code by Peter Shavney, WA3OVH, on Teaching Morse.

through the room. He started with the his

tory and standard upon which Ethernet is based and covered its evolution over the years. One of the things to note is that Ethernet started in 1973 as a wireline-based protocol between computers and printers running at 2.94 Mb/s. It evolved from there to operate at 10 Mb/s in 1980. The Institute of Electrical and Electronic Engineers (IEEE) commissioned a standards group that resulted in IEEE Standard 802.3 Carrier Sense Multiple Access with Collision Detection (CSMA/CD). Since then additional standards ranging up to 10 Gb/s have been developed. d and Ethernet can operate wirelessly.

Bill KD2HIQ then went into the physical part with interface cards and modules and cabling. Category 5, Category 5e, and Category 6 cables are the most likely ones that hams would use so he focused on them. They are all twisted pair cables usually with 4 pairs or 8 wires in them. The twists are intended to improve electrical



Bill Craft, KD2HIQ, receiving a Program Certificate of Appreciation from Harold Fleischer, AE5AS, President of the San Antonio Radio Club

(Continued on Page 6)

SAN ANTONIO RADIO CLUB PRESIDENT'S RADIOGRAM

NUMBER	PRECEDENCE	HX	STATION OF ORIGIN	CHECK	PLACE OF ORIGIN	TIME FILED	DATE
8	R		AE5AS		San Antonio, TX		October
TO W5SC							

I thought that this time of year would be relatively slow, but it is not. There are three important things going on in the San Antonio Radio Club right now.

First, the Nominating Committee is working on identifying four candidates to serve as officers for 1 year terms and another to serve as a director for a 5 year term. They are to report to all of us on these candidates at the October 11, 2018 General Membership Meeting.

Second, Mike Harrison, KB5KST, as the JOTA Committee Chairperson is working on JOTA which is at the Texas Transportation Museum (TTM) on October 20, 2018. This is an interesting undertaking, and he has several volunteers to help with this. I do not believe that Mike KB5ST has a limit on participating hams so contact him if you want to be included.

Third, SARC is becoming involved with the San Antonio Museum for Science and Technology (SAMSAT). It will become a site for license classes. David Finell, N7LRY, is already set up to work with them on that. It will become the quarterly on air site for our Centennial Commemoration events. Tom O'Brien, AB5ZX, is already working with SAMSAT on that. In addition, we are working to help get a ham station set up at SAMSAT. I expect that the Centennial Commemoration Committee will one day be replaced with a SAMSAT Committee to manage a continuing relationship between SARC and SAMSAT.

There are separate articles on all three of these items so see them for more information. I usually worry about how to fill the space made available for these President's Radiograms, but become surprised how quickly I always fill the space when I get into it. SARC has a lot going on when you think about it.



Harold AE5AS

Bexar Wire

Published monthly by:
San Antonio Radio Club

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President

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Editor
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The due date for articles is the **Monday** before the first **Thursday** of the month.

San Antonio Radio Club
Meeting Minutes
September 12, 2018

Harold Fleischer, AE5AS, President, called the meeting to order at 7:00 p. m. at Grady's BAR-B-Q, 327 E. Nakoma Dr., San Antonio, TX 78216. There were 21 people in attendance. (Fourteen ate at Grady's BBQ before the meeting.)

Harold Fleischer, AE5AS, then introduced himself as Harold AE5AS and then in accordance with SARC custom asked everyone else to introduce themselves.

Harold Fleischer, AE5AS, then turned the meeting over to Mike Harrison, KB5KST, Vice President, who introduced the program. The program was presented by Bill Craft, KD2HIQ, on Getting Physical with Ethernet (55 minutes from 7:05 pm to 8:00 pm). Mike Harrison, KB5KST, thanked Bill Craft, KD2HIQ, and turned the meeting back over to Harold Fleischer, AE5AS, who immediately presented Bill Craft, KD2HIQ, with a Program Certificate of Appreciation.

Harold Fleischer, AE5AS, then reviewed the printed agenda for meeting with the members present and asked if there were any modifications. There being no modifications suggested, Harold Fleischer AE5AS announced the printed agenda as orders for the meeting by without objection by unanimous consent.

Harold Fleischer, AE5AS, then stated that whereas the minutes for the last meeting on August 9, 2018 had been distributed in the August 2018 Bexar Wire newsletter that unless there were corrections or objections that we would dispense with the reading of the minutes and approve them as written without objection by unanimous consent.

Officer Reports:

President

The Nominating Committee appointments have been made:

Paul Guido, N5IUT, Chairperson

Jeff Boyes, ND8B, Member

Eric Harris, KG5SZV, Member

- Their mission will be to identify 4 officers and 1 member of the Board of Directors by the October 11, 2018 meeting. The retiring Board member is Tom O'Brien, AB5XZ.
- The election will be at the November 8, 2018.
- The new officers and member of the Board of Directors start their terms on Jan 1, 2019.
- Anyone interested in being on the Nominating Committee should contact me as soon as possible.

Vice President – Future Program: The program in October will be Teaching Morse Code by Peter Shavney.

Secretary – no report.

Treasurer – Financial Report was distributed by the Treasurer and briefly discussed.

Newsletter Editor - The September 2018 *Bexar Wire* newsletter was sent to Tom O'Brien, AB5ZX, and Bill Craft, KD2HIQ, on September 10, 2018 for emailing to membership.

The September 2018 *Bexar Wire* newsletter uploaded to the website on Monday, September 10, 2018, and Tom O'Brien, AB5ZX, sent out a link on September 11, 2018 to members with a meeting reminder.

The deadline is the Friday before the first Thursday of the month.

Webmaster – Bill Craft, KD2HIQ, reported;

- That he has created an on-line membership application that links to PayPal.
- That he has created an on-line vendor form for Radio Fiesta 2019 that links to PayPal.
- The results from the membership and Radio Fiesta 2019 go to the Treasurer and the respective chairperson.
- A security plug-in on the website has been updated as there was a website crash.

- Website statistics show a 5% increase in traffic, but Facebook statistics are down.

Chairman of the Board Report –Bob Rodriguez, K5AUW – No report.

Committee Reports

Education and Training – David Finell, N7LRY, reported that he and Bob Rodriguez, K5AUW, gave a Technician Class on Saturday, August 11, 2018 and Saturday, August 18, 2018 at the Mays Family YMCA at Potranco. There were 6 students with 4 taking the Technician examination immediately add the end of the class. We have 3 new Technicians and 1 new General. There will be CERTS Training in Helotes on October 6 and 13, 2018 by Bob Rodriguez, K5AUW, and David Finell, N7LRY, with the VEs testing at 3 pm on October 13, 2018. This session is not open to the general public as it is being done for CERTS. SAMSAT is under investigation as a venue for classes. Another class will be set up when a venue is nailed down.

Emergency Communications Report – J C Smith, N5RXS, reported before the meeting that:

- The ARES SET is scheduled for Saturday, October 6, 2018.
- SATAC Hospital Exercise is scheduled for Saturday, October 11, 2018.
- Not sure if ARES will combine these two exercises as a part of a STRAC exercise if one becomes scheduled.

Executive – No meetings since last month, no report.

Field Day – Joe Bruno, W5AUQ, Chairperson, is setting up a maintenance day for the tower with Richard Elder, WB5ACN. A broken pulley has jammed the cable the raises the mast. The plan is to replace all pulleys as they are probably 40 years old. Also, run generators at same time and charge up batteries for laptops.

Finance and Review – inactive until January

JOTA – Mike Harrison, KB5KST, went to the August and Septembers roundtable meetings where he distributed flyers about our support of JOTA.

Anyone wanting to help with JOTA on Saturday, October 20, 2018 at 10:30 AM, should contact him. Volunteers to date are: Bob Thompson, Eric, Jeff (20M), Pete (40M), Mike (2M), Joe (6M), Rosendo, and Harold.

Membership – Tom O'Brien, AB5XZ, reported that we have about 90 paid members with 10-15 free memberships mostly from VE testing.

He plans to get with Jeff Boyes, ND8B, Bill Craft KD2HIQ, and Pat Knight, AD5BR, to reconcile the naming of fields on the membership blank, PayPal, VE testing membership form, and the master membership spread sheet.

Nominating – No report.

Radio Fiesta – No report.

VEC – The VEs supported the Technician Class on Saturday, August 18, 2018. There were 4 new Hams licensed with one being a General.

The regular test session held at 10:00 a. m. on August 25, 2018, at the Great Northwest Library.

There were ten candidates and all earned the license they came to get: 5 Technicians, 3 Generals, and 2 Amateur Extras.

Centennial Commemoration (Temporary) - Tom O'Brien, AB5XZ, reported.

- That he has the banner layout and logo for coin and the QSL stamp so he will proceed with ordering and pin.
- The Centennial Committee has decided that the call sign for Filed Day 2019 will be W5SC/100 since this format is now permitted by FCC rules. Also, you can use your call with/100.
- The Centennial Committee will be going to SAMST at 1:00 p. m. on Saturday, September 15, 2018 to evaluate the site for license classes, station setup, and station operation especially for special events for the Centennial year.

CW Training (Temporary) – Joe Bruno, W5AUQ, reported that he will try one last time to get a group started. A list was sent around the room for anyone interested to sign-up.

Old Business - None

New Business - None

Announcements for the Good of Amateur Radio

Richard Elder, WB5ACN, announced that he had some QST and CQ magazines to give away.

Harold Fleischer, AE5AS, announced that the HAMster event for September 22, 2018 has been cancelled as the hosting American Red Cross site will be focusing on backing up disaster relief operations on the east coast.

Joe Bruno, W5AUQ, had pictures Jerry Berry's ham equipment that is priced to move.

Peter Shavney invited the club to attend his 90th Birthday on Oct 14, 2018 at the Texas Transportation Museum.

The meeting was adjourned at 8:55 p. m.

Eric Harris, KG5SZV
Secretary

Getting Physical with Ethernet

(Continued from Page 1)



View of the left side of the room before the General Membership meeting on September 12, 2018



View of the right side of the room before the General Membership meeting on September 12, 2018

properties. He also covered connectors, especially RJ45 for these cables.

A copy of the viewgraphs for Bill KD2HIQ's presentation starts on page XXXX.

After Bill KD2HIQ completed his presentation, he was thanked by Mike Harrison,

KD5KST, on behalf of all members present. The President then presented him with a Program Certificate of Appreciation.

Officer and Committee reports were generally routine and are shown in the minutes starting on Page 3. There were a few highlights:

- The President announced that Paul Guidio, N5IUT, Jeff Boyes, ND8B, and Eric Harris, KG5SZV accepted appointment to the Nominating Committee. Paul N5IUT will be Chairperson. The Nominating Committee's objective is to put together a slate of 4 offices for 1-year terms and 1 director for a five-year term. They should be reporting the nominees at the October 12, 2018 General Membership Meeting.
- Mike Harrison, KB5KST, Chairperson, JOTA Committee, reported on the status of JOTA preparations and obtained the names of several volunteers to help with JOTA (see article about JOTA starting on page 6).
- Tom O'Brien, AB5ZX, Chairperson, Centennial Commemoration Committee, reported that the logo, banner, coin, etc. stuff is under control, and he has moved to the acquisition phase on them. A meeting at the San Antonio Museum Science and Technology (SAM-SAT) has been set up for September 15, 2018 to see if it can be the quarterly on-air site for the Centennial Commemoration in 2019.

Nominations and Elections

As reported in the minutes, the President appointed a Nominating Committee at the last General Membership Meeting on September 12, 2018. Paul Guido, N5IUT, Chairperson, Jeff Boyes, ND8B, Member, and Eric Harris, KG5SZV, Member, have accepted the opportunity to serve on this committee. Their mission is to come up with a slate of four (4) offices for one (1) year terms and one (1) Director for a five (5) year term. The officer positions are President, Vice President, Secretary, and Treasurer. The Nominating Committee's report on the slate of candidates is due at the October 11, 2018 meeting. The election is held in November because SARC does not meet in December. All five individuals take office on January 1, 2019.

SARC is an officially registered non-profit entity with the State of Texas and is a registered non-profit with the IRS. It has a long history, which is why the Centennial is being celebrated in 2019. In the end, all members of SARC are volunteers. Members of SARC voluntarily get a license from the FCC and then voluntarily joining SARC. There are no employees of SARC. Everyone is a volunteer. Some members volunteer to help with Radio Fiesta, Field Day, classes, VE testing, membership, Emergency Communications, JOTA, or some combination of activities none of which come happen without their volunteers. It is the same with being an officer or director of SARC. Volunteers are needed to do the tasks with these offices, so we can lead, administer, and manage ourselves so as to satisfy our objectives and meet on going Texas and IRS requirements for non-profits.

Strongly consider taking a turn as an elected officer or director. All members of the Nominating Committee are already elected officers or appointed chairpersons. As such, their contact information is on the leadership page of the website.

JOTA



Jamboree On The Air (JOTA) is a Boy Scouts of American (BSA) initiative in its 61st year will be on October 20, 2018. SARC has supported it for years with Bob Rodriguez, K5AUW, being a long term spark plug for it. This year, Mike Harrison, KB5KST, will, for the second year in the row, be the Chairperson for SARC's JOTA program. He already has four or five of volunteers to help him.

It will be held for the third year in a row at the Texas Transportation Museum (TTM), 11731 Wetmore Road, San Antonio, TX 78247. Pete Shavney, WA4OVH, a member of SARC, is also a long, long term member of TTM and made the arrangements. TTM is giving SARC their best trackside pavilion for JOTA. TTM is also generously giving free admission to all Scouts attending JOTA and to all their family members and Scout leaders. This includes access to all parts of the TTM and rides on their prototype, full sized train.

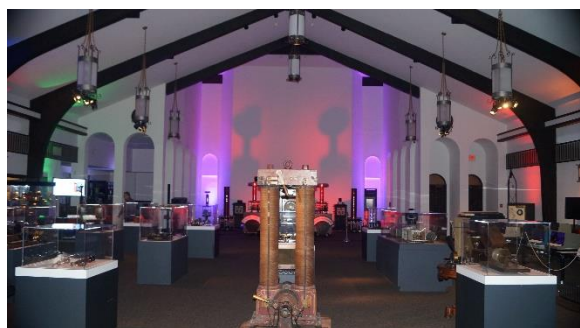
The working hours for the JOTA Committee will be 9:00 a. m. until 4:00 p. m. Setup will be from 9:00 a. m. until 10:00 a. m. JOTA for the Scouts will be from 10:00 a. m. until 3:00 p. m. Tear down will start at 3:00 p. m. Experience indicates that most Scouts will arrive in late morning.

Who is a Scout for JOTA purposes? Boy Scouts, Cub Scouts, Girl Scouts, and even accompanying siblings. No child or teenager who shows up will not be put on the air.

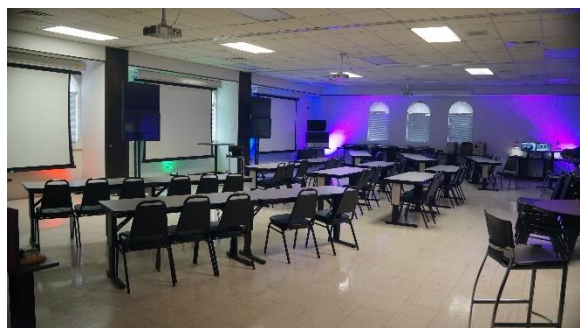




The main entrance to the SAMSAT at 102 Mabry Drive, San Antonio, TX 78226



The main exhibit hall at SAMSAT



The classroom area at SAMSAT



German Enigma Machine for encryption

Tom O'Brien, AB5ZX, Chairperson, Centennial Commendation Committee, was looking for a site to hold an on-air special event for SARC in its Centennial Year of 2019. One site that he found was a relatively new organization called the San Antonio Museum of Science and Technology (SAMSAT). Tom AB5ZX has been to its site at 102 Mabry Drive, San Antonio, TX 78226 at Port San Antonio (the former Kelly AFB).

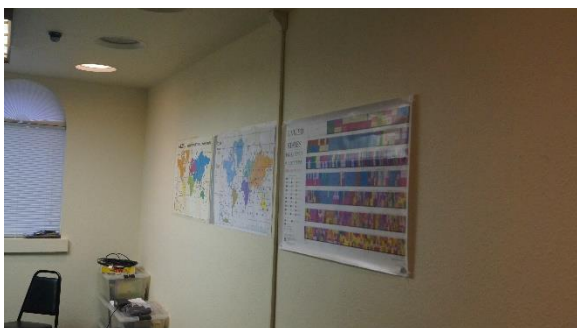
This is a relatively new museum, and the current location is going to be temporary. In a year, SAMSAT will be moving to a larger location at Port San Antonio. It's current Museum Manager is David Monroe. It is currently open from 10:00 a. m. to 5:00 p. m. on Saturdays. They have an exhibit area and a classroom area. The exhibit area has many interesting and rare items in it. The classroom area is very flexible and is used for various things. SAMSAT already has a largely dedicated room for amateur radio.

Several members of SARC went to SAMSAT on September 15, 2018 to include Harold Fleischer, AE5AS, President, Tom O'Brien, Chairperson, Centennial Commendation Committee, and David Finell, N7LRY, Chairperson, Education and Training Committee. There were several agreements reached during this visit. One was the use of the classroom space for Technician and General License Classes and of the conference room for the usually smaller Executive Classes. David N7LRY feels that SAMSAT is a more centrally located site. On a going forward basis, David N7LRY will coordinate directly David Monroe of SAMSAT to schedule classes. David N7LRY would like to hold one class each quarter.

Another major agreement was to use the SAMSAT site for the quarterly on air events in 2019 for that part of SARC's Centennial Commendation. SARC will use as much SAMSAT equipment as possible, but expects to use its trailer mounted beam antenna for each event. SARC members will



Rosendo Guzman, N5YGB, and his daughter Deanna in the amateur radio room also known as the Spark Shack at SAMSAT



Ham charts donated by Tom O'Brien, AB5ZX, in the Spark Shack at SAMSAT



Tom O'Brien, AB5ZX, Joe Bruno, W5AUQ, Rosendo Guzman, N5YGB, and Richard Elder, WB5ACN, working on the R5 Antenna before checking SWR on the ground before moving the antenna to the roof



R5 Antenna in place on the roof of SAMSAT over the Spark Shack below

do the work necessary to connect SAMSAT and SARC equipment together to make an operable HF radio system. Tom AB5XZ will coordinate directly with David Monroe on getting this site operational and on the dates it will be used for the quarterly on air events.

Currently, SAMSAT has no antennas to go with the existing amateur radio transceiver and receivers that they have. SARC is loaning an R5 10M-15M-20M Antenna to SAMSAT to use until they relocate. This will permit SAMSAT to offer to let any licensed Ham to use their station with whatever rules beyond the FCC ones that they wish to impose. This could be SARC licensees, Hams from other clubs, or even Hams not belonging to a club or just passing through. This too was left to Tom AB5ZX to work out with David Monroe.

Finally, SARC members present discussed the amateur radio room that SAMSAT is planning for its new location in a year. The main recommendations were grounding and on the antenna. Grounding is seen as a must. David Monroe shared a personnel experience with grounding and could not be more on board. With respect to a permanent antenna, SARC recommended a tower on the roof with a beam antenna using a remotely controlled rotor. This would give them improved range which would make it more attractive to Hams to come and operate.

There have already been follow-up work sessions on Sep 22 and 29, 2018 on this. At the Sep 22, 2018, Tom AB5ZX and others got ham related charts and frequency bands on the wall, put in place a 24 hour clock, adjusted the ham radio operating table to a comfortable height, and figured out a mounting design for R5 antenna.

At the Sep 29, 2018, Tom AB5ZX, Joe Bruno, W5AUQ, Richard Elder WB5ACN, Harold Fleischer, AE5AS, and Rosendo Guzman, N5YGB, were focused on putting the loaned R5 Vertical Antenna on the roof of SAMSAT's building. The design of the base was done by Rosendo N5YGB and featured a tripod loaned by Joe W5AUQ and screwed to a double thickness of $\frac{3}{4}$ "



R5 Antenna in place on the roof



Base of the R5 Antenna designed by Rosendo Guzman, N5YGB



Joe Bruno, W5AUQ, and Richard Elder, WB5ACN, making SWR readings after the R5 Antenna was mounted on the roof

plywood measuring 4' x 4' and furthered weighed down by cement blocks. This did provide a sturdy base that will hold up under most San Antonio weather conditions (not guaranteed for hurricanes and tornados.) Richard WB5ACN did SWR measurements both before and after the R5 Vertical Antenna was mounted on the roof. The results were good in 10M, 15M, and 20M. Some tuning on 12M and 17M is probably needed. A task remaining for another day is RF cabling from the R5 Antenna on the roof through a junction box, conduit, etc. into the amateur radio room.

In addition to this, Rosendo N5YGB donated a dual band VHF/UHF antenna that mounted on the window. At 11:30 a. m., the first contact by amateur radio was made by Rosendo N5YGB and David Monroe with Doug N8ITT who was near Bulverde.



Window mounted dual band VHF/UHF antenna mounted on a Spark Shack window that was donated by Rosendo Guzman, N5YGB

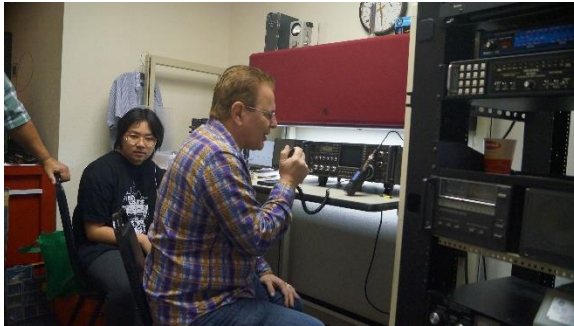


The SWR reading for VHF on the dual band VHF/UHF antenna used for the first radio contact from SAMSAT



Rosendo Guzman, N5YGB, making the first radio contact from SAMSAT

While SARC's short term goals are the Centennial Commendation and license training classes, this is probably just the start of a longer term relationship between SARC and SAMSAT as work has begun on a Memorandum of Understanding between the two organizations.



David Monroe, SAMSAT Muesum Manager, joining in on the first radio contact from SAMSAT under control operator Rosendo Guzman, N6YGB, whose daughter Deanna is in the picture



Next License Test on Saturday, October 27, 2018

Pat Knight, AD5BR, Chairperson, Volunteer Examination Committee, and several the members of that committee will be conducting amateur radio license examines on Saturday, October 27, 2018. The test session will start at 10:00 a. m. at the Great Northwest Library. This test session is open to the public although pre-registration is encouraged. There is a \$15 FCC authorized fee.

Note: The test session on October 13, 2018 is only for CERTS people taking a Technician Class.

Slides from Bill Craft's presentation, "Get Physical with Ethernet", are available on our website (www.W5SC.ORG) or from your editor at thompo@sbcglobal.net.

Yahoo Groups

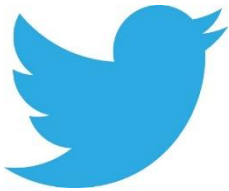


SARC has had a Yahoo Group for a number of years now. Its name is W5SC.

W5SC is being used to publicize SARC business meetings. It can be used for other things like promotion of VEC testing and classes. Members of the W5SC Yahoo Group can and have asked each other technical questions or sought assistance.

W5SC is a closed group. To become a member, go to groups.yahoo.com. (You may need to have a Yahoo account.) This will take you to a website where your groups, if any, are shown with a Search Group box at the top. Enter W5SC. This will take you to the search results page with W5SC on it. Select W5SC to go to the W5SC Yahoo Group. You will then need to select + *Join Group*. This generates a message. SARC members can expect approval to join the W5SC in probably less than 24 hours.

SARC Tweets



Reminder: there are two active Twitter accounts for the San Antonio Radio Club. They are @SARadioClub and @ARadioFiesta.

The @SARadioClub is being used to publicize SARC meetings. It can be used for other things like promotion of VEC testing and classes.

As Radio Fiesta 2017 work has commenced, the @ARadioFiesta is being used again for the January 14, 2017 Radio Fiesta.

SARC members are encouraged to follow both Twitter accounts.

SARC Facebook



There is a San Antonio Radio Club – SARC (@saradioclub) Facebook Page.

The newsletter editor is making posts about SARC meetings and other activities. Any Officer, Committee Chairperson, or member who believes that they have information that should be posted to this page should contact the newsletter editor using the contact information for the newsletter editor on page 2 of this newsletter.

SARC members are encouraged to follow this Facebook Page.

SARC SLACK



There is a San Antonio Radio Club Slack team – w5sc.slack.com.

Slack teams are meant to foster communication between team members. Paul Guido, N5IUT, has established the w5sc.slack.com team for SARC. He has also established some channels. Think of the channels as topical areas.

To join send an email to Paul Guido, N5IUT, at radioteacher@gmail.com. In actuality, any team member already a part of the w5sc.slack.com can invite you, but Paul is known to be on it.

SARC has a website:

w5sc.org

Webmaster: Bill Craft KD2HIQ
Billc851@gmail.com
210-233-8863

Amateur Radio License Classes

General Course is currently being planned. More information will be included when available.

As class plans firm up, they will be summarized here.

SARC Meeting Dates for next 12 Months

October 11, 2018
November 8, 2018
December (None)
January 10, 2019
February 14, 2019
March 14, 2019
April 11, 2019
May 9, 2019
June 13, 2019
July 11, 2019
August 8, 2019
September 12, 2019
Meetings are held at Grady's Barbeque,
327 E. Nakoma Dr., San Antonio, TX
78216 at 7:00 p. m.

Come early and eat with other members coming early.

License Testing Dates for 2018

October 27, 2018
January 12, 2019
February 23, 2019
April 27, 2019
June 22, 2019

Times and locations along with required document information can be found on SARC's website.

SARC does all its licensing testing as a part of ARRL Volunteer Examiner Coordinator (VEC) organization so all the Volunteer Examiners in SARC are duly authorized Volunteer Examiners of ARRL's VEC.

Field Day 2019

Setup: Friday, June 21, 2019
Operations: Saturday, June 22, 2019
& Sunday, June 23, 2019

Where SARC proves they are an eating group with a radio problem.

More information to follow, but hold these dates.

JOTA

Boy Scout Jamboree On The Air

This year's date is Oct 20, 2018. The plan is to again hold it at the Texas Transportation Museum.

For more information, contact:
Gary (Mike) Harrison, KB5KST

Radio Fiesta 2019

January 12, 2019
Schertz Civic Center
See newsletter article for more information

Emergency Communications

If you are interested in emergency communications, contact:
JC Smith N5RXS